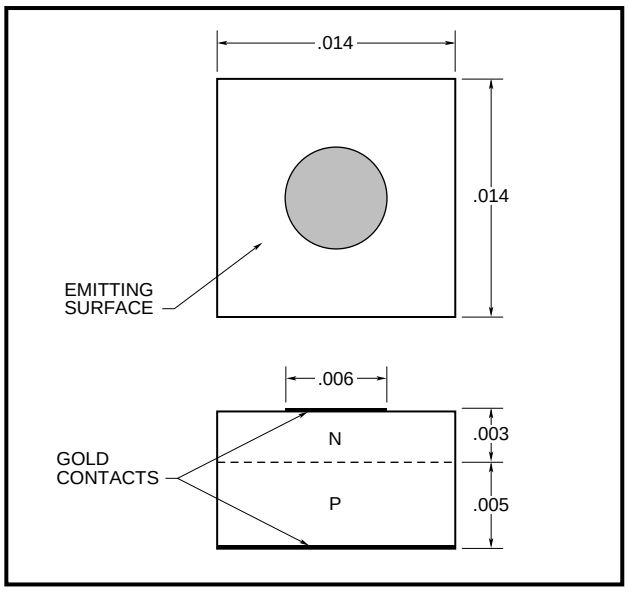


FEATURES

- High reliability LPE GaAlAs IRLED chips
- Graded-bandgap LED structure for high radiant power output
- 880nm peak emission
- Good ohmic contacts (gold alloys)
- Good bondability

All dimensions are nominal values in inches unless otherwise specified.

ELECTRO-OPTICAL CHARACTERISTICS AT 25°C

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, P_o	I_F = 100mA I_F = 20mA	8	14 2		mW
Peak Emission Wavelength, λ_P	I_F = 50mA		880		nm
Spectral Bandwidth at 50%, $\Delta\lambda$			80		nm
Forward Voltage, V_F	I_F = 100mA		1.55	1.9	Volts
Reverse Breakdown Voltage, V_R	I_R = 10µA	5	30		Volts
Capacitance, C	V_R = 0V		17		pF
Rise Time			0.5		µsec
Fall Time			0.5		µsec

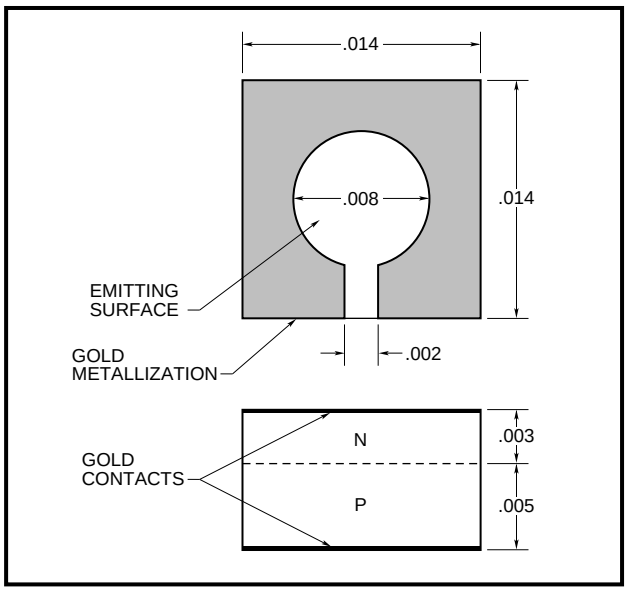
ABSOLUTE MAXIMUM RATINGS AT 25°C

Power Dissipation	190mW
Continuous Forward Current	100mA
Peak Forward Current (10µs, 300 Hz)	3A
Reverse Voltage	5V
Storage and Operating Temperature Range	-65°C to 150°C
Maximum Junction Temperature	150°C

The exact performance data depends on your package configuration and technique. Data listed in this specification is for the chip mounted on a TO-46 header using silver epoxy as the die attach material. All sales are final after 60 days from the shipment date. Opto Diode must be notified of any discrepancies within this period.

OPTO DIODE CORP.
750 Mitchell Road, Newbury Park, California 91320
Phone (805) 499-0335 FAX (805) 499-8108

HIGH-POWER GaAlAS IR EMITTER CHIPS OD-148-C



FEATURES

- High reliability LPE GaAlAs IRLED chips
- Open center emission for imaging applications
- High output uniformity from emitting surfaces
- Gold contacts for high reliability bonding

All dimensions are nominal values in inches unless otherwise specified.

ELECTRO-OPTICAL CHARACTERISTICS AT 25°C

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, P_o	I_F = 100mA	6	8		mW
Peak Emission Wavelength, λ_P	I_F = 50mA		880		nm
Spectral Bandwidth at 50%, $\Delta\lambda$			80		nm
Forward Voltage, V_F	I_F = 100mA		1.55	1.9	Volts
Reverse Breakdown Voltage, V_R	I_R = 10µA	5	30		Volts
Capacitance, C	V_R = 0V		17		pF
Rise Time			0.5		µsec
Fall Time			0.5		µsec

ABSOLUTE MAXIMUM RATINGS AT 25°C

Power Dissipation	190mW
Continuous Forward Current	100mA
Peak Forward Current (10µs, 300 Hz)	3A
Reverse Voltage	5V
Storage and Operating Temperature Range	-65°C to 150°C
Maximum Junction Temperature	150°C

The exact performance data depends on your package configuration and technique. Data listed in this specification is for the chip mounted on a TO-46 header using silver epoxy asthe die attach material. All sales are final after 60 days from the shipment date. Opto Diode must be notified of any discrepancies within this period.

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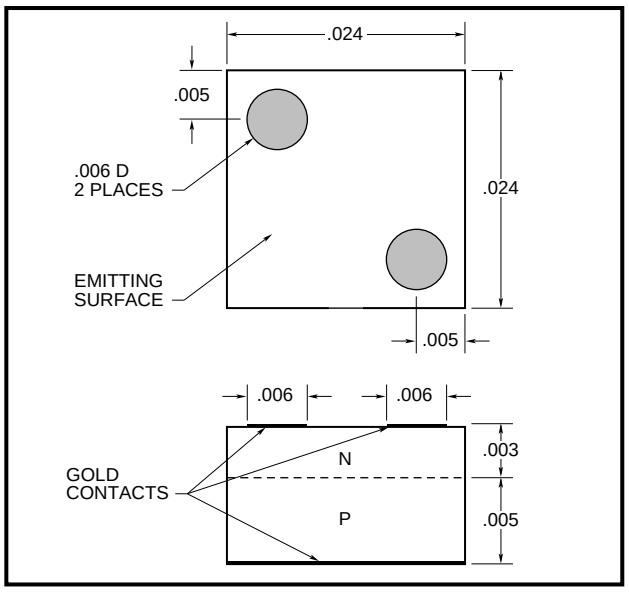

FEATURES

- High current capability
- 2 bond pads for uniform output
- Gold contacts for high reliability bonding
- High reliability LPE GaAlAs IRLED chips

All dimensions are nominal values in inches unless otherwise specified.

ELECTRO-OPTICAL CHARACTERISTICS AT 25°C

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, P_o	I_F = 100mA	7	10		mW
Peak Emission Wavelength, λ_P	I_F = 50mA		880		nm
Spectral Bandwidth at 50%, $\Delta\lambda$			80		nm
Forward Voltage, V_F	I_F = 200mA		1.6	2	Volts
Reverse Breakdown Voltage, V_R	I_R = 10µA	5	30		Volts
Capacitance, C	V_R = 0V		60		pF
Rise Time			0.7		µsec
Fall Time			0.7		µsec

ABSOLUTE MAXIMUM RATINGS AT 25°C

Power Dissipation	400mW
Continuous Forward Current	200mA
Peak Forward Current (10µs, 300 Hz)	7A
Reverse Voltage	5V
Storage and Operating Temperature Range	-65°C to 150°C
Maximum Junction Temperature	150°C

The exact performance data depends on your package configuration and technique. Data listed in this specification is for the chip mounted on a TO-46 header using silver epoxy asthe die attach material. All sales are final after 60 days from the shipment date. Opto Diode must be notified of any discrepancies within this period.

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